

INTERNATIONAL SEARCH REPORT

Application No
PCT/L 03/09980

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BELGRADER P ET AL: "Rapid pathogen detection using a microchip PCR array instrument." CLINICAL CHEMISTRY. UNITED STATES OCT 1998, vol. 44, no. 10, October 1998 (1998-10), pages 2191-2194, XP002244350 ISSN: 0009-9147 the whole document	1-10
X	WO 01 31063 A (EPOCH BIOSCIENCES INC) 3 May 2001 (2001-05-03) page 5-67; claims 18-29; examples 1,8,9 -/--	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *&* document member of the same patent family

Date of the actual completion of the international search

9 December 2003

Date of mailing of the international search report

19/12/2003

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PCT, ... 03/09980

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 34842 A (STRIZHKOV BORIS N ;MIKHAILOVICH VLADIMIR (US); MIRZABEKOV ANDREI () 17 May 2001 (2001-05-17)	1-3,6-9
Y	page 1-14; claims 1,21; figures 1-8; examples 1-6	4,5,10
X	STRIZHKOV B N ET AL: "PCR amplification on a microarray of gel-immobilized oligonucleotides: detection of bacterial toxin- and drug-resistant genes and their mutations." BIOTECHNIQUES. UNITED STATES OCT 2000, vol. 29, no. 4, October 2000 (2000-10), pages 844-848, 850 - 852, 854, XP002167651 ISSN: 0736-6205	1-3,6-9
Y	the whole document	4,5,10
X	HUBER M ET AL: "ACCESSING SINGLE NUCLEOTIDE POLYMORPHISMS IN GENOMIC DNA BY DIRECT MULTIPLEX POLYMERASE CHAIN REACTION AMPLIFICATION ON OLIGONUCLEOTIDE MICROARRAYS" ANALYTICAL BIOCHEMISTRY, ORLANDO, FL, US, vol. 303, no. 1, 1 April 2002 (2002-04-01), pages 25-33, XP001126279 ISSN: 0003-2697	1-3,6,8, 9
Y	the whole document	4,5,7,10
X	WO 01 48242 A (YU ZAILIN ;HU QIANJIN (US); MERGEN LTD (US); PENG ZAoyUAN (US)) 5 July 2001 (2001-07-05)	1-3,8,10
Y	paragraphs '0057!-'0065!,'0082!-'0090!; figures 1-3	4-7,9
X	EP 1 186 669 A (BIOCHIP TECHNOLOGIES GMBH) 13 March 2002 (2002-03-13)	1-3,6-10
Y	paragraphs '0001!-'0012!,'0014!,'0016!-'0021!,'0035!- '0048!,'0057!,'0076!; claims 1-15	4,5,9
X	CARMON A ET AL: "Solid-phase PCR in microwells: Effects of linker length and composition on tethering, hybridization, and extension." BIOTECHNIQUES, vol. 32, no. 2, February 2002 (2002-02), pages 410-420, XP001149129 ISSN: 0736-6205	1-3,8-10
Y	page 410 -page 420; figures 2,3	4-7
	-/-	

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Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 99 02266 A (AKZO NOBEL NV ;DAMME HENDRIK SIBOLT VAN (NL); KREUWEL HERMANUS JOH) 21 January 1999 (1999-01-21) cited in the application claims 1-4,10-16; examples 1-3 ----	1-10
Y	VAN BEUNINGEN ET AL: "Fast and specific hybridization using low-through microarrays on porous metal oxide" CLINICAL CHEMISTRY, AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY. WINSTON, US, vol. 47, no. 10, 12 December 2001 (2001-12-12), pages 1931-1933, XP002200111 ISSN: 0009-9147 the whole document ----	1-10
Y	ORTIZ E ET AL: "PNA MOLECULAR BEACONS FOR RAPID DETECTION OF PCR AMPLICONS" MOLECULAR AND CELLULAR PROBES, ACADEMIC PRESS, LONDON, GB, vol. 12, no. 4, May 1998 (1998-05), pages 219-226, XP000882574 ISSN: 0890-8508 the whole document ----	1-10
Y	EP 0 745 690 A (NEW YORK HEALTH RES INST) 4 December 1996 (1996-12-04) the whole document ----	1-10
Y	US 5 691 146 A (MAYRAND PAUL E) 25 November 1997 (1997-11-25) cited in the application the whole document ----	1-10
Y	WO 00 31304 A (PERKIN ELMER CORP) 2 June 2000 (2000-06-02) the whole document ----	1-10
Y	WO 01 19517 A (CARPAY WILHEMUS M ;PAMGENE B V (NL); PAPEN ROELAND F (US)) 22 March 2001 (2001-03-22) the whole document -----	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal

Application No

PCT/... 03/09980

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0131063	A	03-05-2001	US 6472153 B1	29-10-2002
			AU 1442101 A	08-05-2001
			CA 2387084 A1	03-05-2001
			EP 1224332 A1	24-07-2002
			WO 0131063 A1	03-05-2001
			US 2003113765 A1	19-06-2003
WO 0134842	A	17-05-2001	US 6642000 B1	04-11-2003
			AU 3072101 A	06-06-2001
			EP 1246939 A2	09-10-2002
			WO 0134842 A2	17-05-2001
WO 0148242	A	05-07-2001	AU 2282801 A	09-07-2001
			EP 1255860 A2	13-11-2002
			JP 2003523183 T	05-08-2003
			WO 0148242 A2	05-07-2001
			US 2001036632 A1	01-11-2001
EP 1186669	A	13-03-2002	EP 1186669 A1	13-03-2002
			AU 8771201 A	22-03-2002
			WO 0220833 A2	14-03-2002
WO 9902266	A	21-01-1999	AT 199663 T	15-03-2001
			AU 724382 B2	21-09-2000
			AU 8863298 A	08-02-1999
			CA 2290945 C	28-05-2002
			DE 69800595 D1	19-04-2001
			DE 69800595 T2	18-10-2001
			DK 975427 T3	09-07-2001
			WO 9902266 A1	21-01-1999
			EP 1050588 A1	08-11-2000
			EP 0975427 A1	02-02-2000
			ES 2157669 T3	16-08-2001
			GR 3036010 T3	28-09-2001
			JP 3208390 B2	10-09-2001
			JP 2000515251 T	14-11-2000
			PT 975427 T	30-08-2001
			US 6225131 B1	01-05-2001
			US 2002102565 A1	01-08-2002
			US 2002127738 A1	12-09-2002
			US 2002164584 A1	07-11-2002
EP 0745690	A	04-12-1996	US 5925517 A	20-07-1999
			AU 702598 B2	25-02-1999
			AU 5232496 A	21-11-1996
			CA 2176266 A1	13-11-1996
			EP 0745690 A2	04-12-1996
			JP 9107996 A	28-04-1997
			US 6103476 A	15-08-2000
US 5691146	A	25-11-1997	US 6395518 B1	28-05-2002
			AT 196322 T	15-09-2000
			AU 693023 B2	18-06-1998
			AU 5442896 A	21-11-1996
			CA 2219891 A1	07-11-1996
			DE 69610304 D1	19-10-2000
			DE 69610304 T2	05-04-2001
			EP 0826066 A1	04-03-1998

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT, L. 03/09980

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5691146	A	JP 11504219 T WO 9634983 A1 US 2003215826 A1 US 6485903 B1	20-04-1999 07-11-1996 20-11-2003 26-11-2002
WO 0031304	A 02-06-2000	US 6638760 B1 AU 2028300 A CA 2350756 A1 EP 1133574 A1 JP 2002531074 T WO 0031304 A1	28-10-2003 13-06-2000 02-06-2000 19-09-2001 24-09-2002 02-06-2000
WO 0119517	A 22-03-2001	US 6383748 B1 AU 7368900 A CA 2383262 A1 EP 1212137 A1 JP 2003509663 T WO 0119517 A1 US 2002025533 A1	07-05-2002 17-04-2001 22-03-2001 12-06-2002 11-03-2003 22-03-2001 28-02-2002